

Fig. 1A Prior art

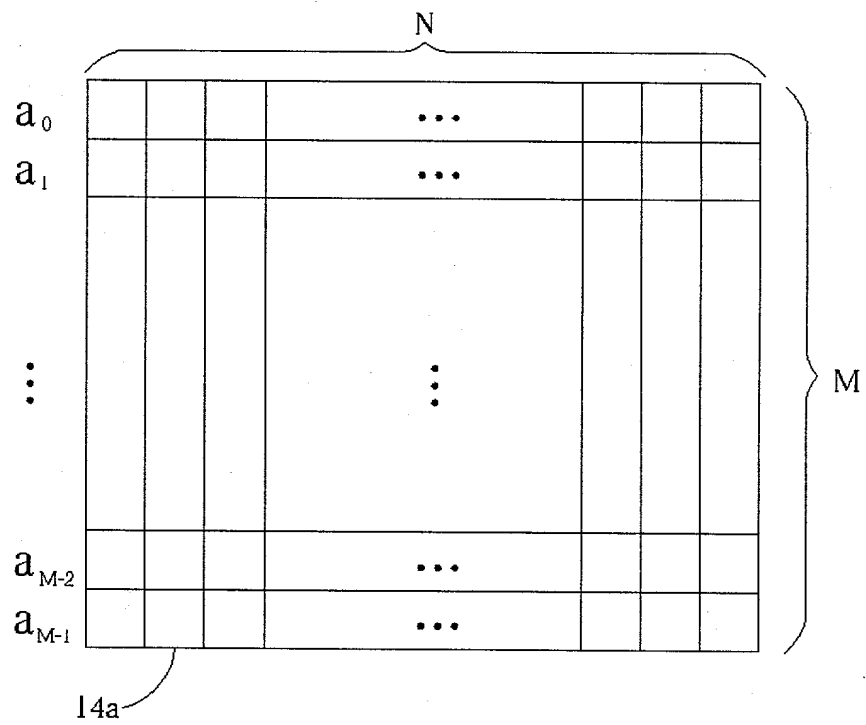


Fig. 1B Prior art

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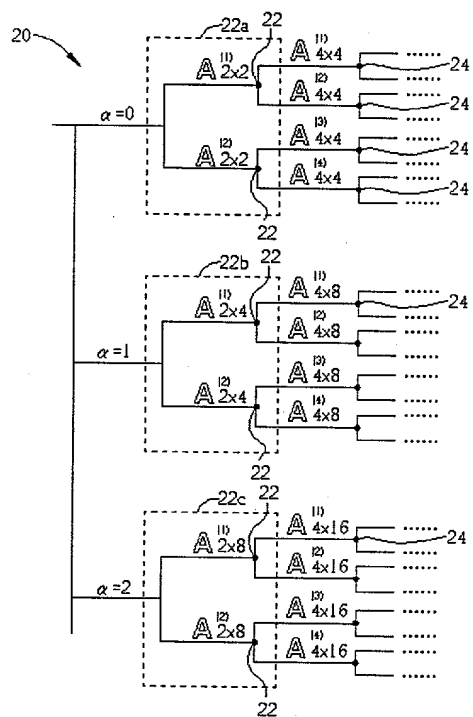


Fig. 2

$$A^{(1)}_{2 \times 2} = \begin{bmatrix} + & + \\ + & - \end{bmatrix}$$

Fig. 3A

10063771.054102

$$A^{(2)}_{2 \times 2} = \begin{bmatrix} + & - \\ + & + \end{bmatrix}$$

Fig. 3B

10063771.051403

$B^{(1)}_{2 \times 2} =$

$$\begin{bmatrix} + & + \\ + & - \end{bmatrix}$$

Fig. 3C

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$$\mathbf{B}^{(2)}_{2 \times 2} = \begin{bmatrix} - & + \\ + & + \end{bmatrix}$$

Fig. 3D

10063771.051403

$$A^{(1)}_{2 \times 4} = \begin{bmatrix} + & + & + & - \\ + & - & + & + \end{bmatrix}$$

Fig. 4A

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$$A^{(2)}_{2 \times 4} = \begin{bmatrix} + & + & - & + \\ + & - & - & - \end{bmatrix}$$

Fig. 4B

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$$A \otimes B = \begin{bmatrix} a_{0,0}B & a_{0,1}B & \dots & a_{0,N-1}B \\ a_{1,0}B & a_{1,1}B & \dots & a_{1,N-1}B \\ \vdots & \vdots & & \\ a_{M-1,0}B & a_{M-1,1}B & \dots & a_{M-1,N-1}B \end{bmatrix}$$

Fig. 5

$$A_{4 \times 4}^{(1)} = \left[ A_{2 \times 2}^{(1)} \otimes A_{2 \times 2}^{(1)} \right] = \begin{bmatrix} + & + & + & + \\ + & - & + & - \\ + & + & - & - \\ + & - & - & + \end{bmatrix}$$

Fig. 6A

$$A_{4 \times 4}^{(2)} = \left[ A_{2 \times 2}^{(2)} \otimes A_{2 \times 2}^{(1)} \right] = \begin{bmatrix} + & + & - & - \\ + & - & - & + \\ + & + & + & + \\ + & - & + & - \end{bmatrix}$$

Fig. 6B

$$A_{4 \times 4}^{(3)} = \left[ A_{2 \times 2}^{(1)} \otimes A_{2 \times 2}^{(2)} \right] = \begin{bmatrix} + & - & + & - \\ + & + & + & + \\ + & - & - & + \\ + & + & - & - \end{bmatrix}$$

Fig. 6C

$$A_{4 \times 4}^{(4)} = \left[ A_{2 \times 2}^{(2)} \otimes A_{2 \times 2}^{(2)} \right] = \begin{bmatrix} + & - & - & + \\ + & + & - & - \\ + & - & + & - \\ + & + & + & + \end{bmatrix}$$

Fig. 6D

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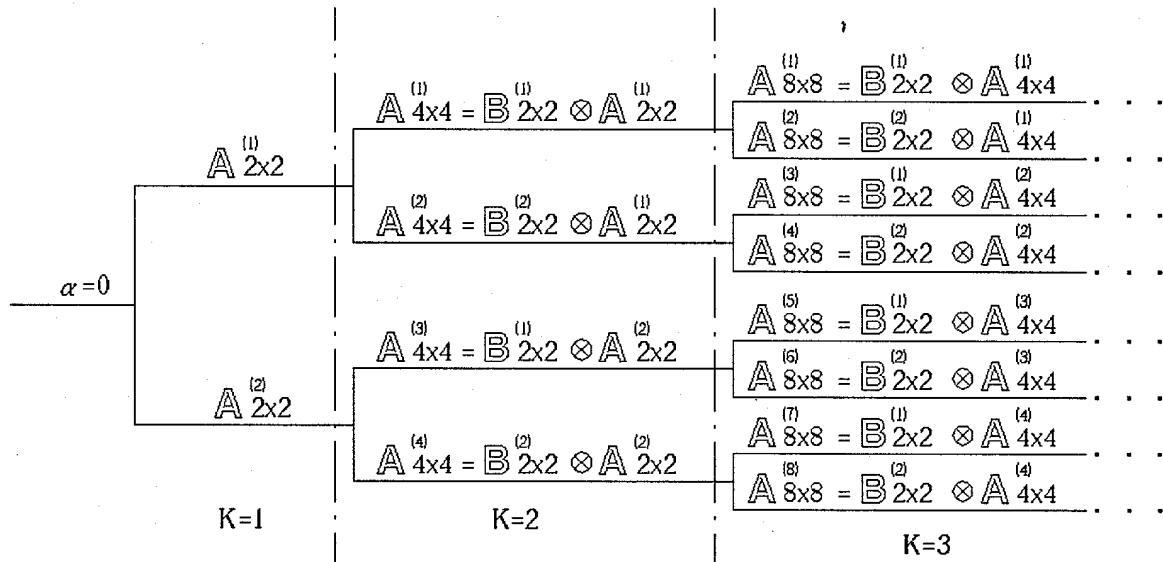


Fig. 7A

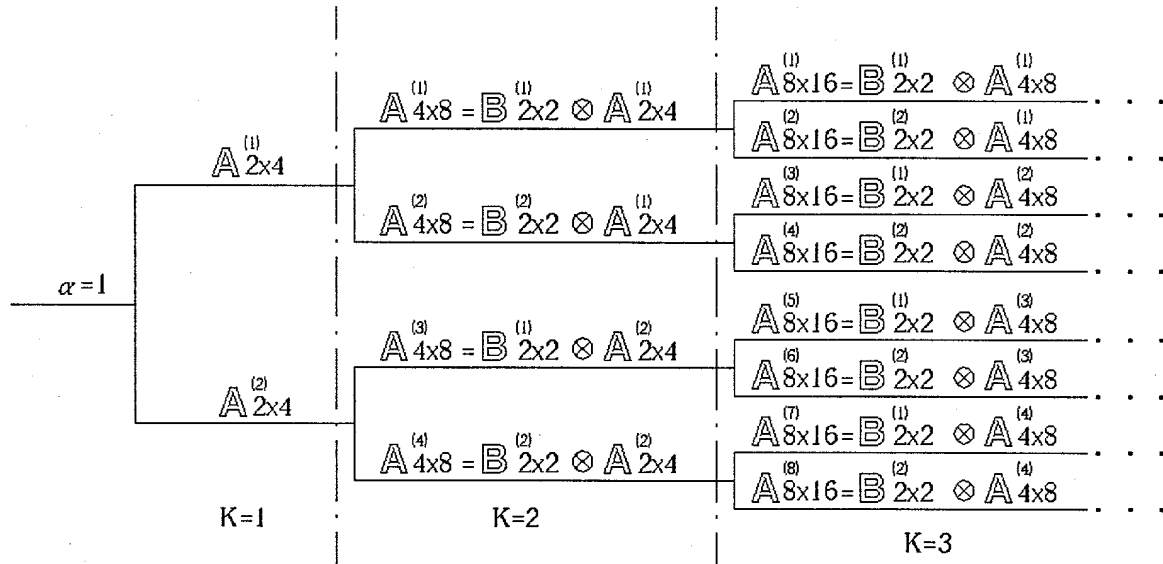


Fig. 7B



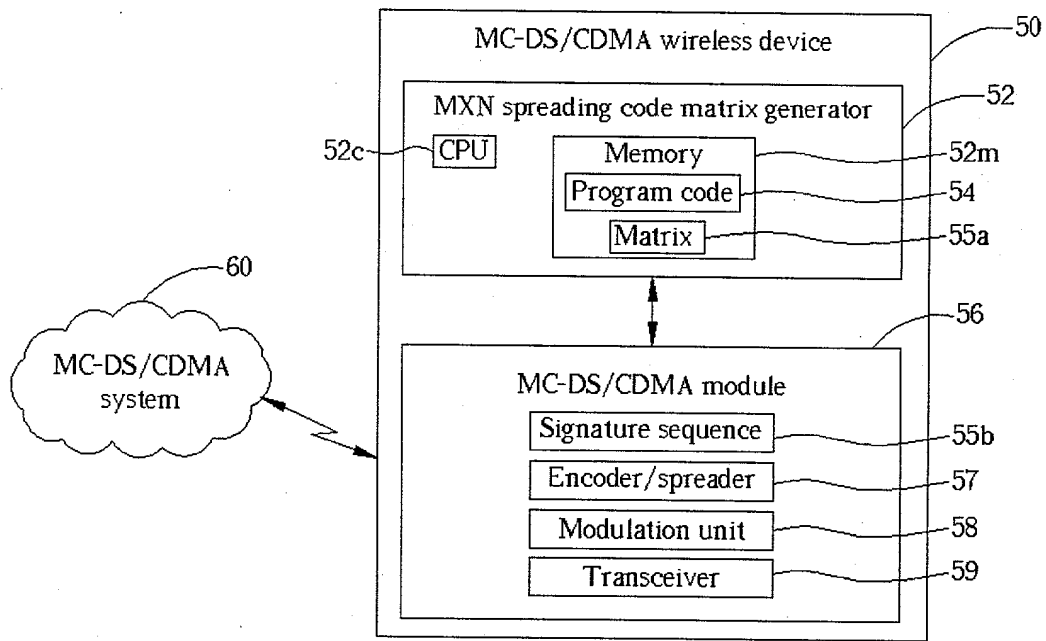


Fig. 8